

ANTENNA ARRAY 10

Fig. 1
(Prior Art)

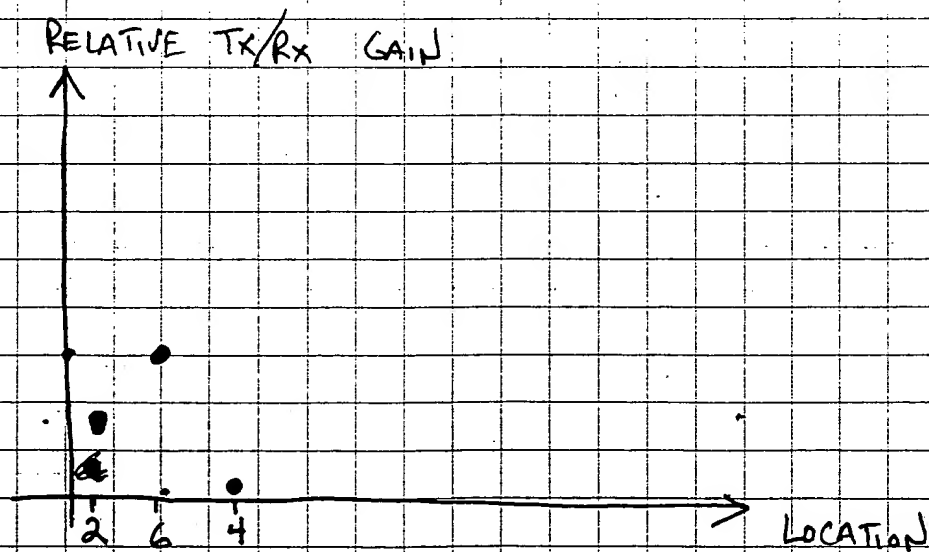


Fig. 1B
(Prior Art)

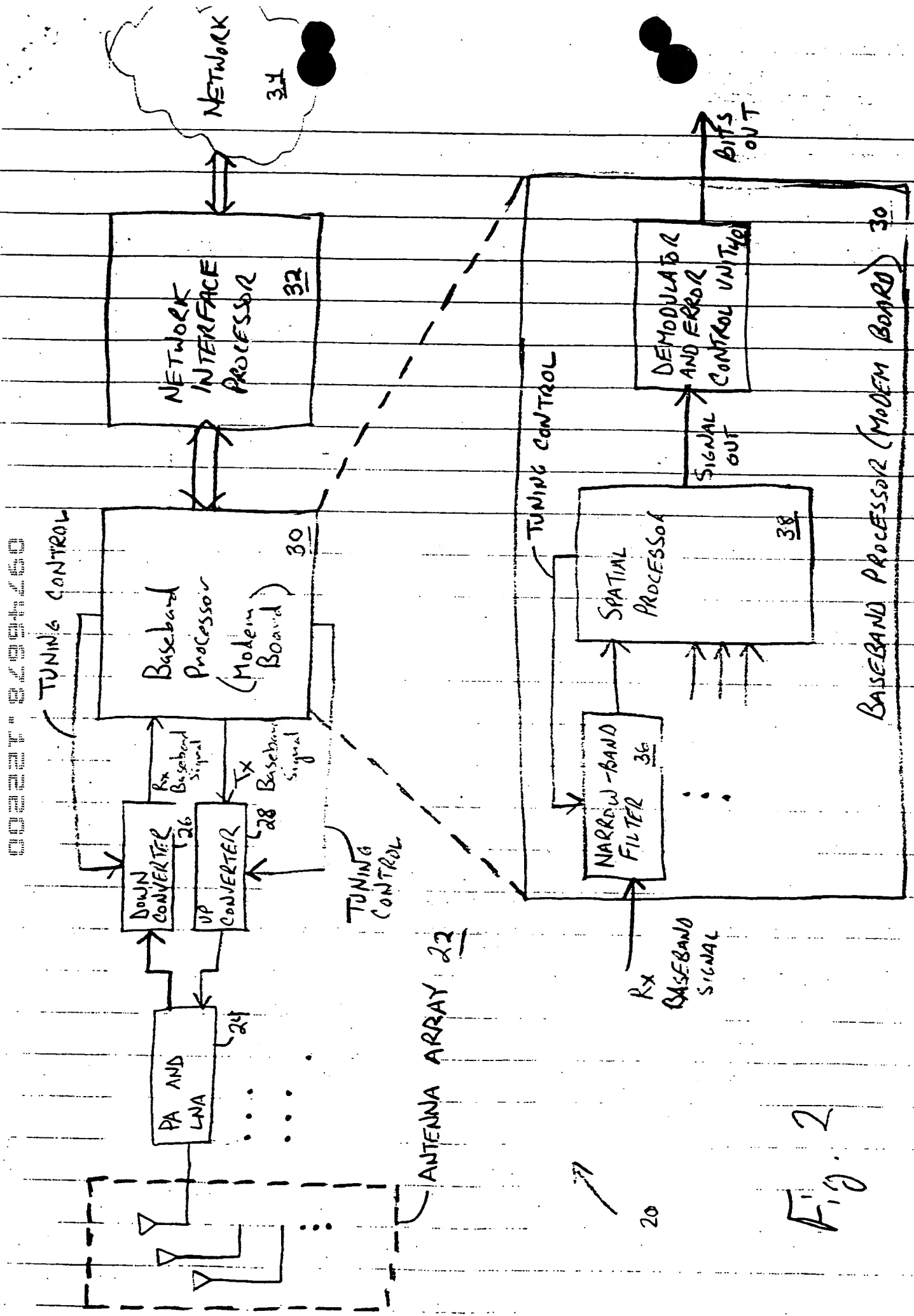


Fig. 2

Fig.
3A

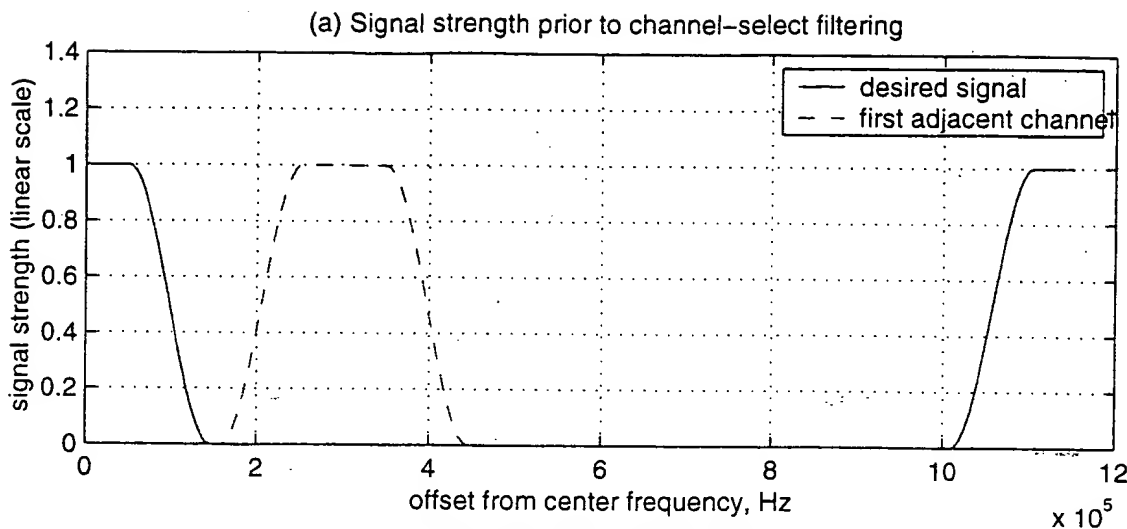


Fig.
3B

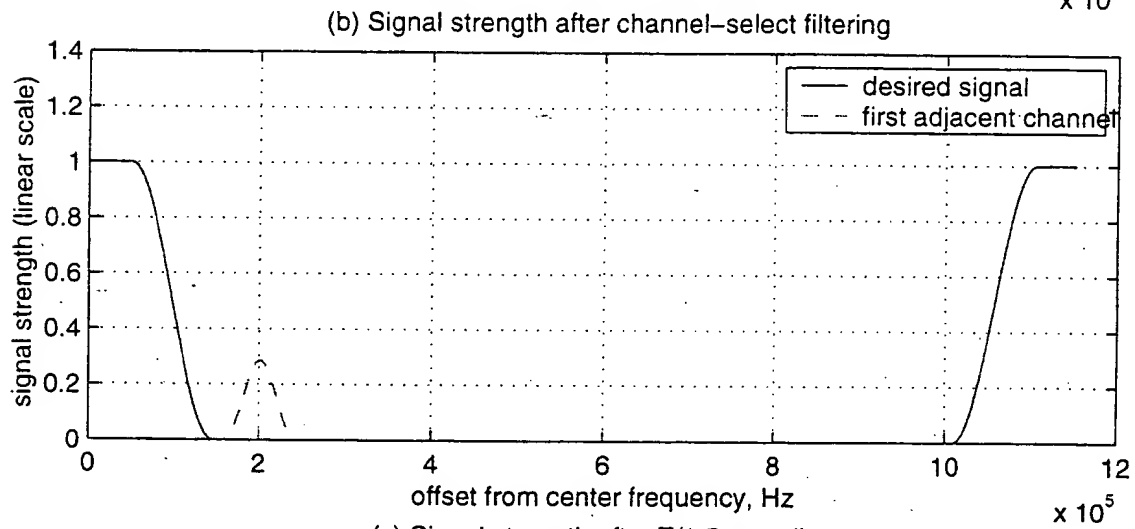
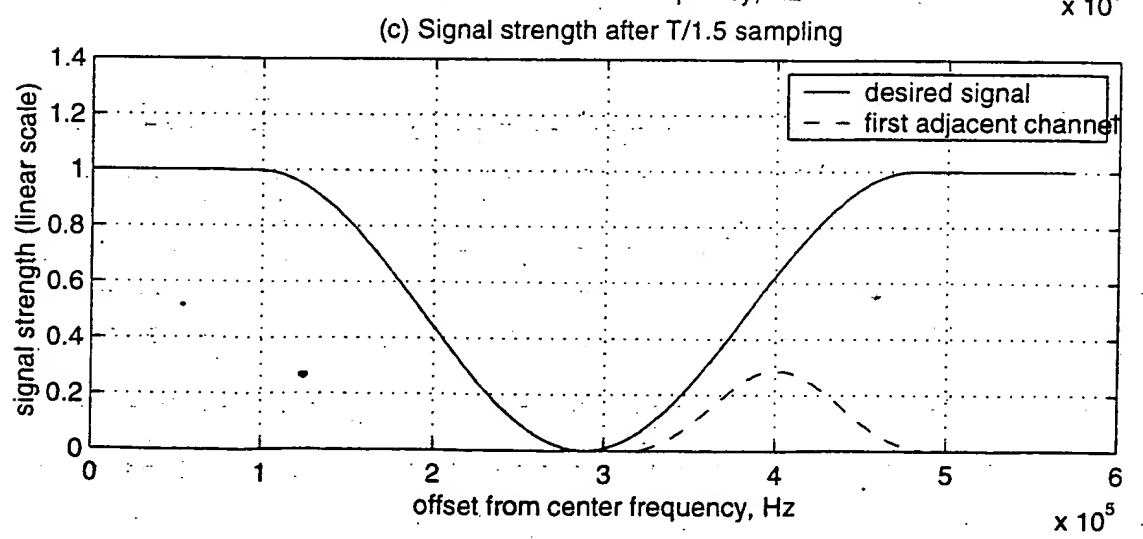
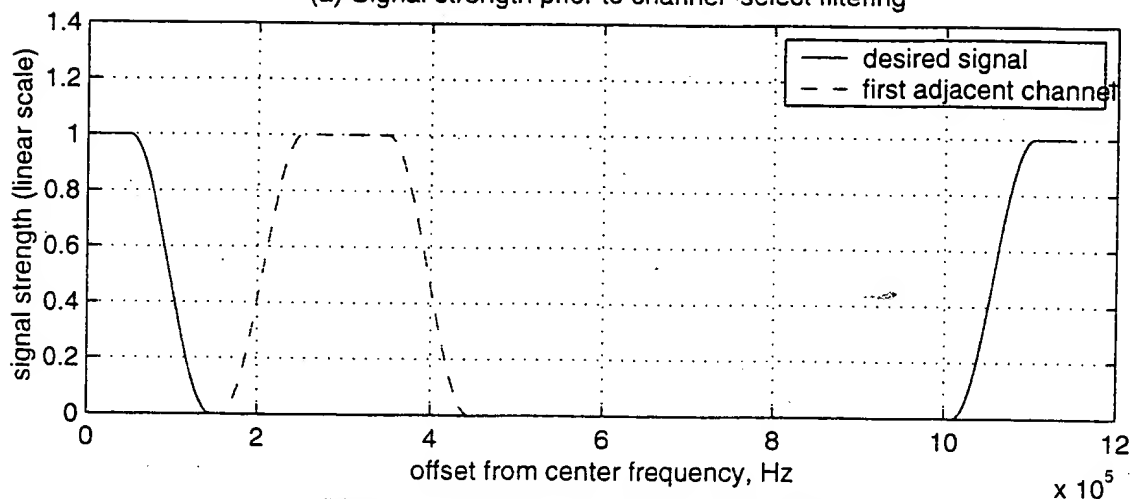


Fig.
3C

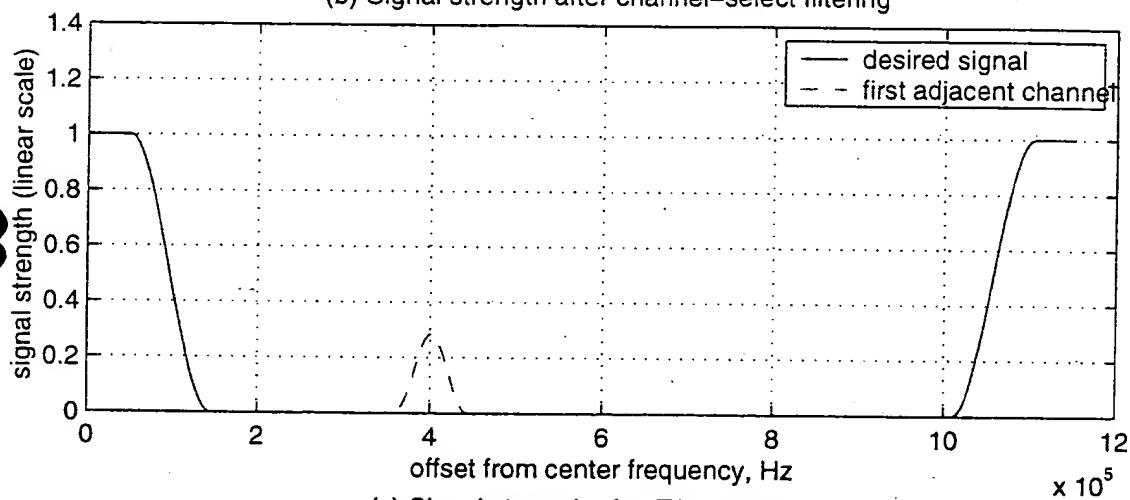


~~Figure 1. Davis method for adjacent channel pulling.~~

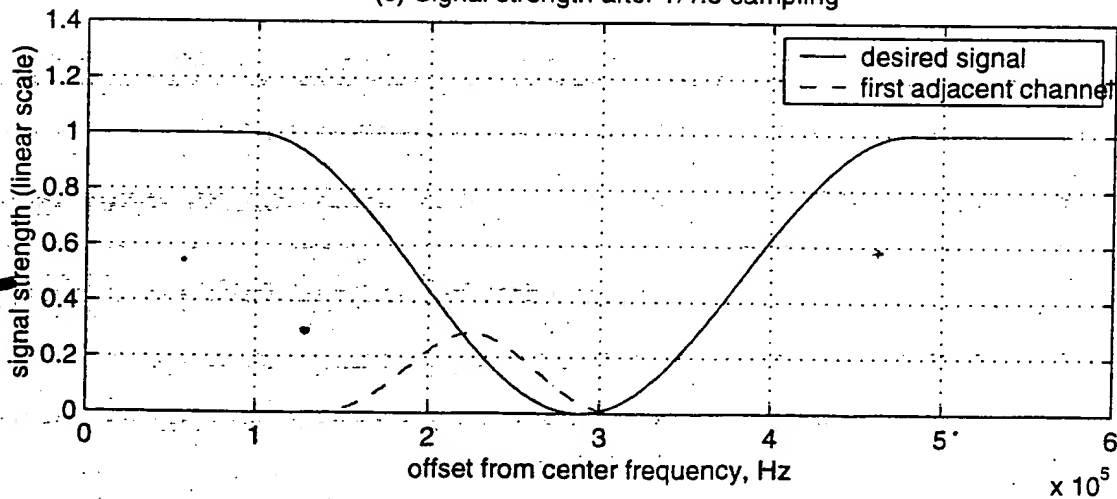
(a) Signal strength prior to channel-select filtering



(b) Signal strength after channel-select filtering



(c) Signal strength after T/1.5 sampling



~~Figure 2. Improved method for adjacent channel nulling~~

Utilize a first channel for communicating with a first RUT 60

Determine that a second RUT that utilizes a second channel for communication is susceptible to interference caused by a signal transmitted on the first channel 62

Generate an interference mitigated region at the location of the second RUT when transmitting to the first RUT on the first channel 64

Fig. 5

Determine that transmission
of at least one downlink
signal will cause a ghost
signal at a location

70

Adjust a downlink weight
to be applied to the downlink
signal(s) to mitigate the
effect of the ghost signal
at the location

72

Transmit the downlink
signal in accordance
with the adjusted
downlink weight

74

Fig. 6